

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of transmitting one or more data streams to a mobile terminal configured for simultaneous communication via a plurality of types of wireless networks, the method comprising:

(i) sending the one or more data streams from a correspondent host to a home agent located in the home network of the mobile terminal, the mobile terminal sending a request for a data stream to be transmitted by the correspondent host and the mobile terminal communicating with the home agent to transmit a network location of the mobile terminal to the home agent; and

(ii) forwarding the one or more data streams to the mobile terminal,

wherein the mobile terminal sends to the home agent information about the types of networks to which the mobile terminal is currently connected, the available bandwidth for each type of network to which the mobile terminal is currently connected, and the mobile host's terminal's care-of address applicable for each type of network to which the mobile terminal is currently connected, the home agent selecting an appropriate network and its applicable care-of address based on the available bandwidth for each type of network to which the mobile terminal is currently connected.

2. (Previously Presented) The method of transmitting one or more data streams to the mobile terminal as in claim 1, wherein in response to a change in the information about the type of network to which the mobile terminal is currently connected received by the home agent

at least one of the data streams is forwarded by the home agent to a network cache, said at least one of the data streams being stored in the network cache until the home agent forwards said at least one of the data streams to the mobile terminal.

3. (Previously Presented) The method of transmitting one or more data streams to the mobile terminal as in claim 1, wherein the request sent by the mobile terminal to the correspondent host is sent via the home agent.

4. (Previously Presented) The method of transmitting one or more data streams to the mobile terminal as in claim 1, wherein all communication from the home agent to the mobile terminal is routed via a foreign agent, the foreign agent being located in a subnetwork to which the mobile terminal is connected.

5. (Previously Presented) The method of transmitting one or more data streams to the mobile terminal as in claim 1, wherein all communication from the mobile terminal to the home agent is routed via a foreign agent, the foreign agent being located in a subnetwork to which the mobile terminal is connected.

6. (Previously Presented) The method of transmitting one or more data streams to the mobile terminal as in claim 1, wherein in response to a change in the information about the type of network to which the mobile terminal is currently connected received by the home agent the information content of at least one of the data streams is reduced before being forwarded to the mobile terminal.

7. (Previously Presented) The method of transmitting one or more data streams to the mobile terminal as in claim 6, wherein the reduction of information content of the at least one of the data streams comprises the conversion from a first data format to a second data format having a lower resolution than the first data format.

8. (canceled)

9. (Currently Amended) A mobile communications terminal comprising:
an interface configured for simultaneous communication via a plurality of types of wireless communications networks;
means for transmitting and receiving data using one or more ~~of the~~ network interfaces;
control means operative to send messages by way of the interface to a home agent about the types of networks to which the mobile terminal is currently connected, the available bandwidth for each type of network to which the mobile terminal is currently connected, and the ~~mobile host's~~ terminal's care-of address applicable for each type of network to which the mobile ~~host~~ terminal is connected; and
means responsive to the home agent which selects a wireless communications network on which to transmit and receive data and its applicable care-of address based on the available bandwidth for each type of network to which the mobile terminal is currently connected.

10. (Currently Amended) A communications network comprising:

a plurality of mobile communications subnetworks, some of said mobile communications subnetworks having overlapping geographical coverage; and

a home agent operative such that an associated mobile terminal can be in simultaneous communication with more than one of the plurality of mobile communications subnetworks;

wherein the home agent comprises a receiver for receiving from the mobile terminal information relating to the types of subnetworks to which the mobile terminal is currently connected, the available bandwidth for each type of subnetwork to which the mobile terminal is currently connected, and the mobile ~~host's~~ terminal's care-of address applicable for each type of subnetwork to which the mobile terminal is currently connected, the home agent selecting an appropriate subnetwork and its applicable care-of address based on the available bandwidth for each type of subnetwork to which the mobile terminal is currently connected.

11.-14. (canceled)

15. (Currently Amended) A ~~computer program product~~ non-transitory storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform a method of transmitting one or more data streams to a mobile terminal configured for simultaneous communication via a plurality of types of wireless communication channels, the method comprising:

(i) sending the one or more data streams from a correspondent host to a home agent located in a home network of the mobile terminal, the mobile terminal sending a request for the one or more data streams to be transmitted by the correspondent host and the mobile terminal

communicating with the home agent to transmit the network location of the mobile terminal to the home agent; and

(ii) forwarding the one or more data streams to the mobile terminal,

wherein the mobile terminal sends to the home agent information about the types of different communications channels to which the mobile terminal is currently connected, the available bandwidth for each type of communications channel to which the mobile terminal is currently connected, and the mobile ~~host's~~ terminal's care-of address applicable for each type of communications channel to which the mobile terminal is currently connected, the home agent selecting an appropriate communications channel and its applicable care-of address based on the available bandwidth for each type of communications channel to which the mobile terminal is currently connected.

16. (canceled)

17. (Currently Amended) The method as in claim 1, wherein the ~~mobile host~~ home agent selects an appropriate network and its applicable care-of address by comparing the bandwidths of the different types of networks to which the mobile ~~host~~ terminal is selected.

18. (Currently Amended) The mobile communications terminal ~~host~~ as in claim 9, wherein the ~~mobile host~~ home agent selects an appropriate network and its applicable care-of address by comparing the bandwidths of the different types of networks to which the mobile ~~host~~ terminal is selected.

19. (Currently Amended) The communications network as in claim 10, wherein the ~~mobile host~~ home agent selects an appropriate network and its applicable care-of address by comparing the bandwidths of the different types of networks to which the mobile ~~host~~ terminal is selected.

20. (Currently Amended) The non-transitory storage medium ~~computer program~~ ~~product~~ as in claim 15, wherein the ~~mobile host~~ home agent selects an appropriate communications channel and its applicable care-of address by comparing the bandwidths of the different types of communications channel to which the mobile ~~host~~ terminal is selected.